

RECONFIGURABLE MUX/DEMUX TO ENABLE WAVELENGTH INDEPENDENT TRANSPONDER SLOTS THAT CAN BE WIRED WITH FIXED OPTICAL CONNECTIONS AND SEND/RECEIVE ANY λ

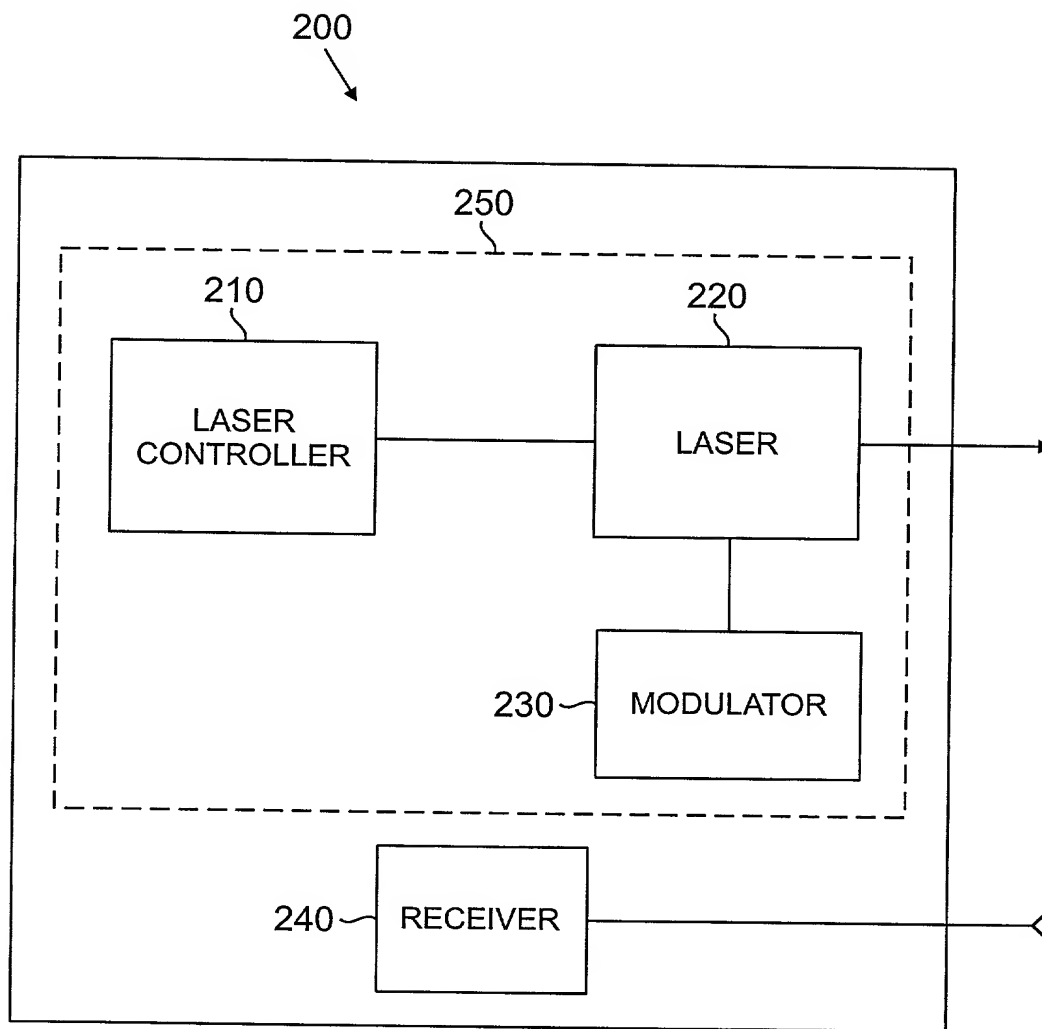
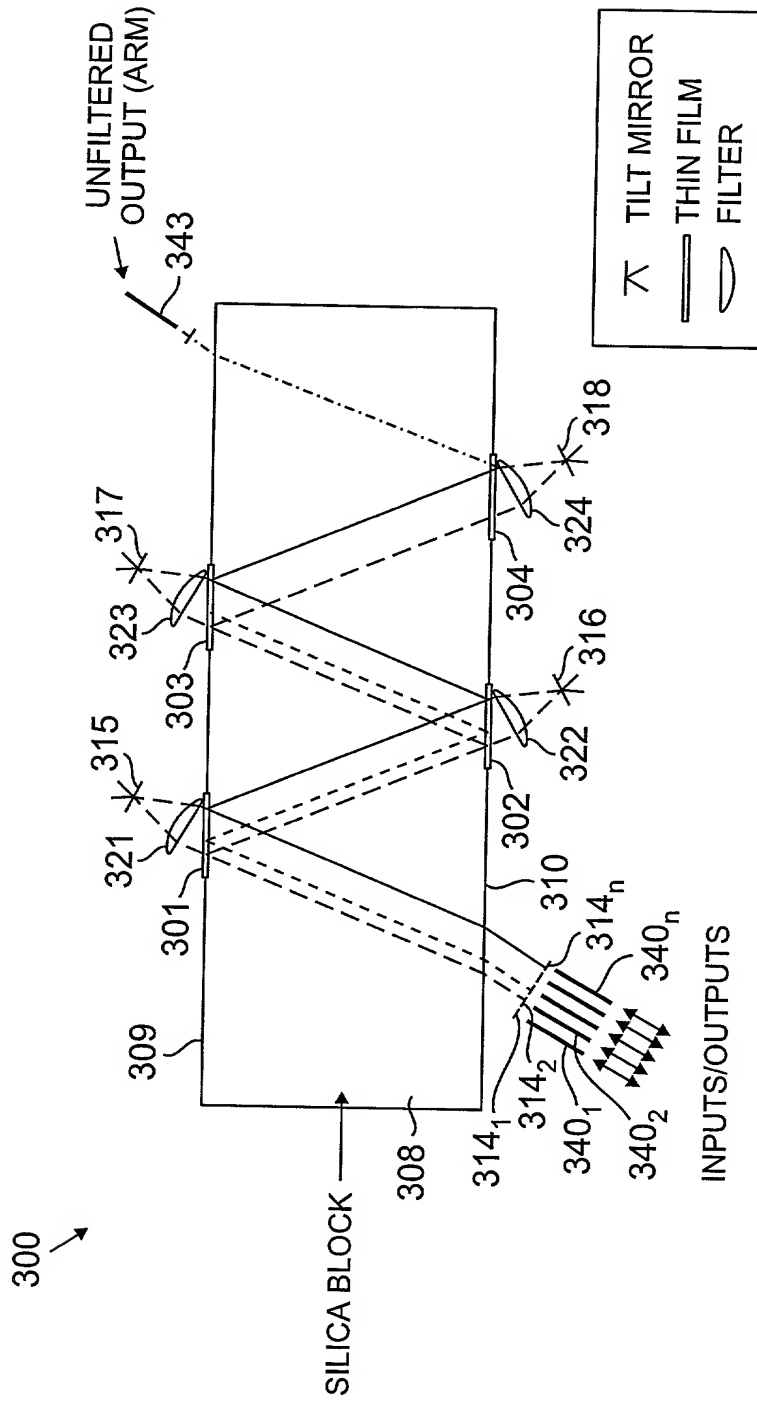
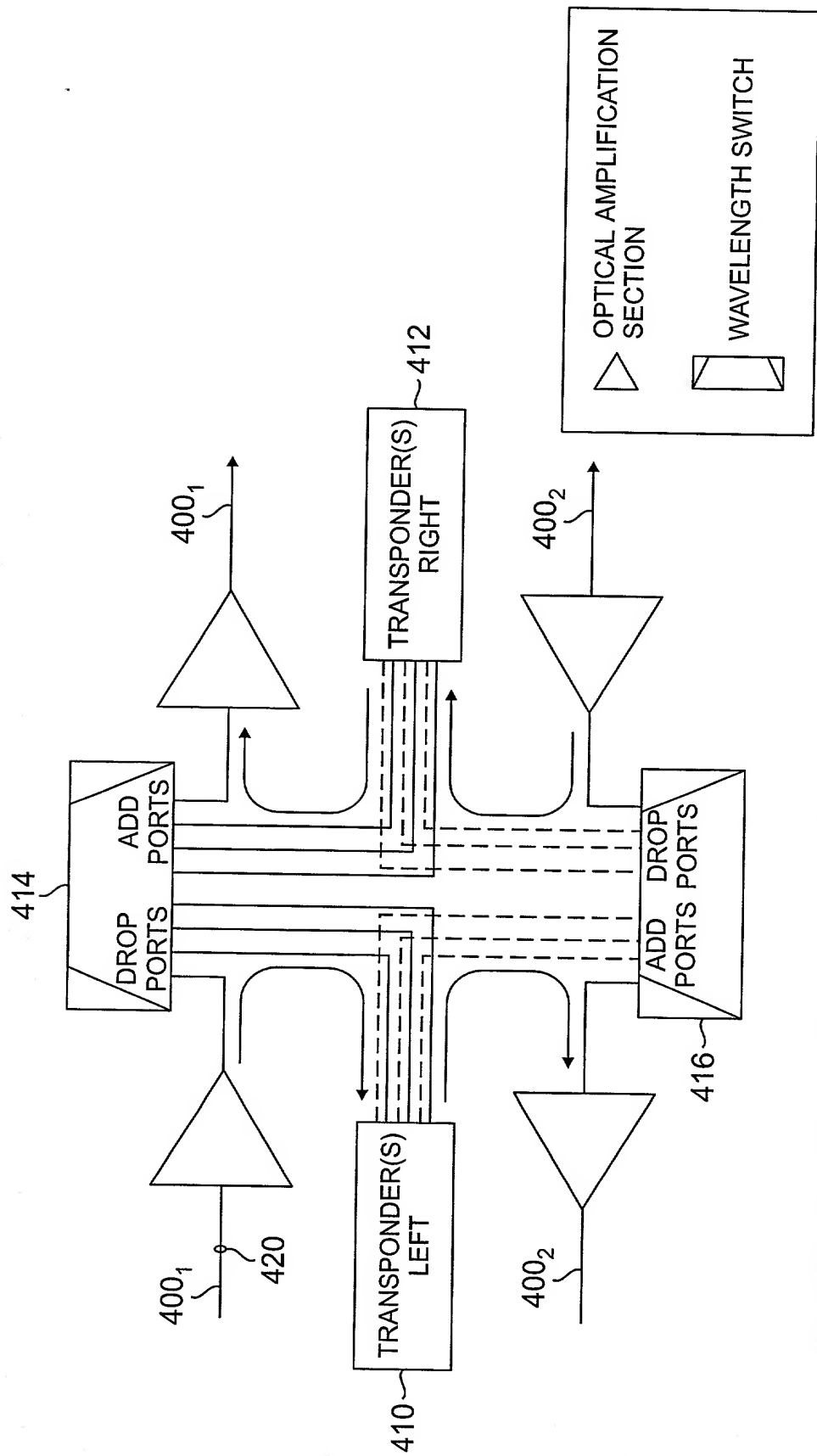


FIG. 2



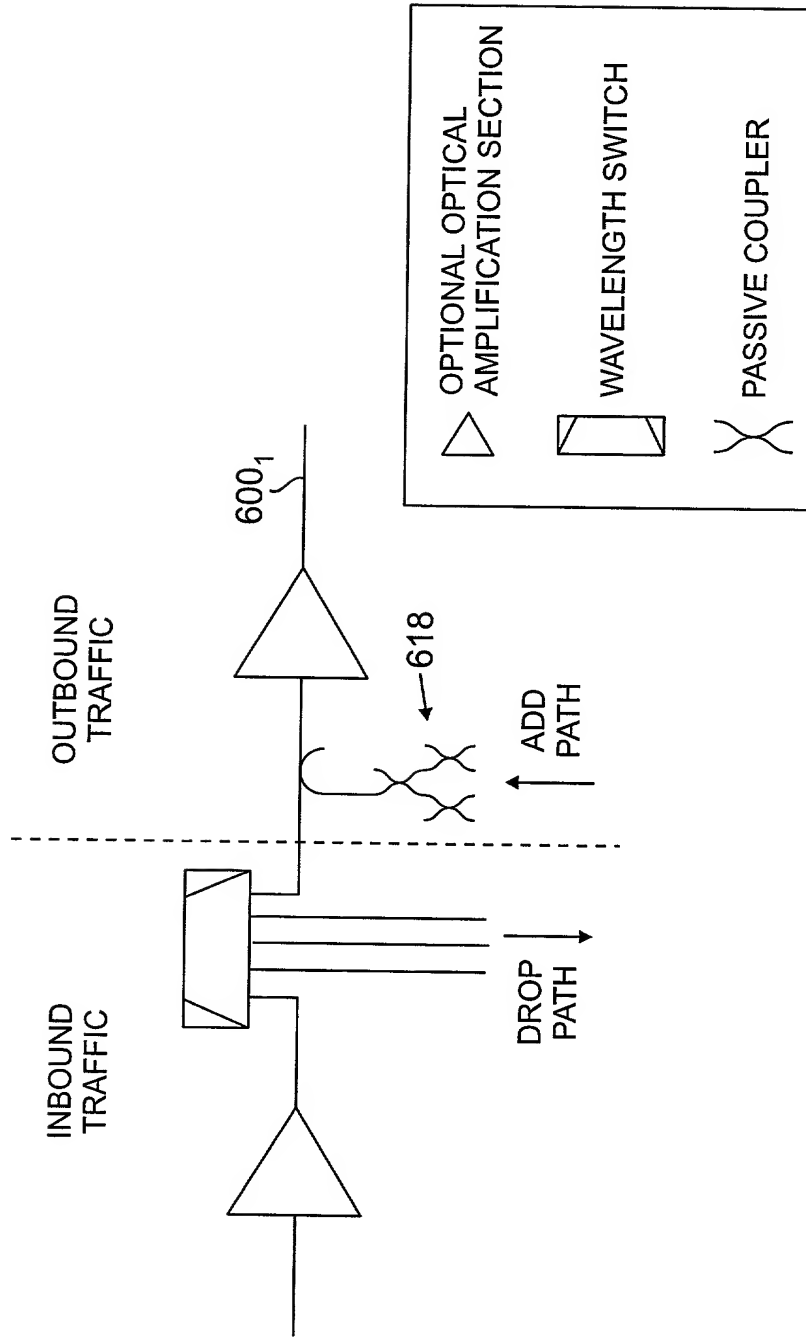
BIDIRECTIONAL INPUTS/OUTPUTS WITH
INDEPENDENT WAVELENGTH DISTRIBUTION

FIG. 3



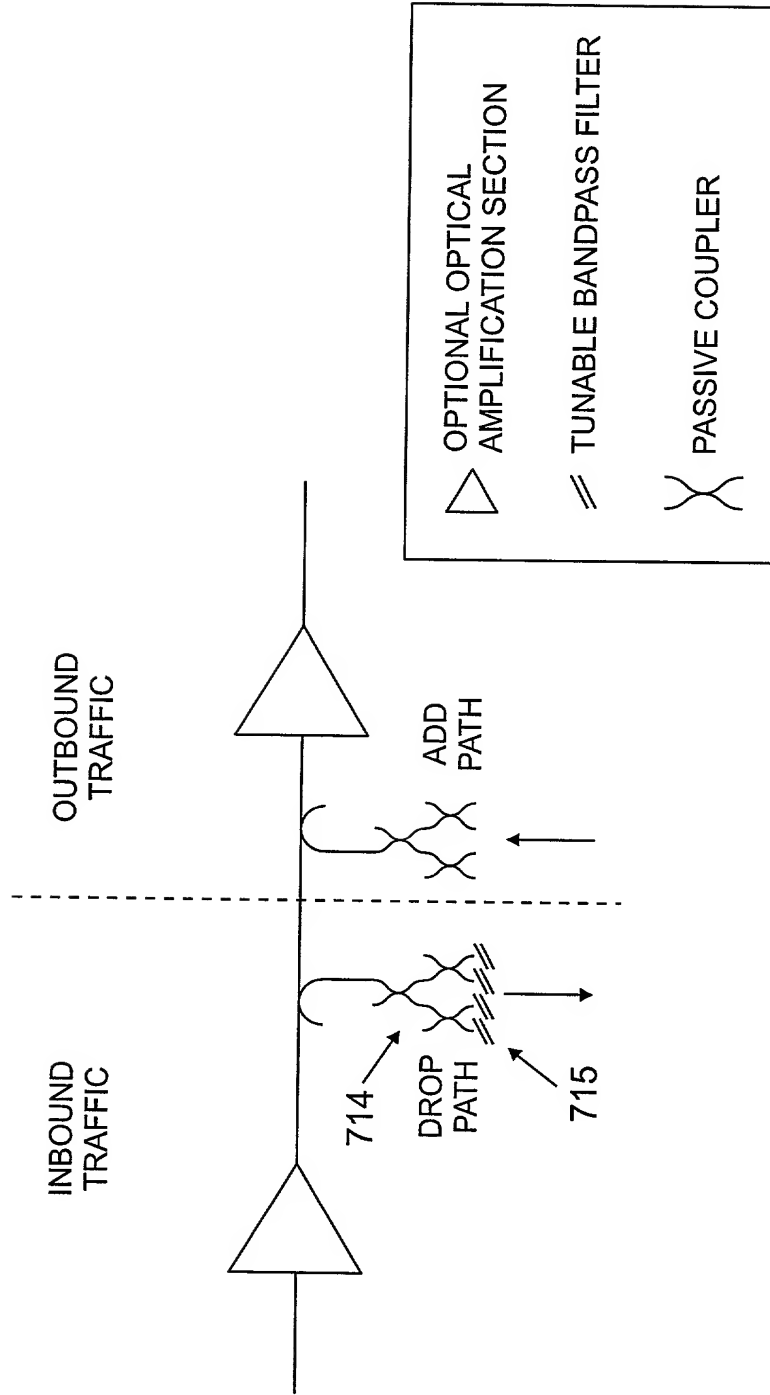
MID-AMPLIFIER SWITCH TO ADD/DROP CHANNELS TO SEPARATE SERVICE PATHS ON A UNIDIRECTIONAL FIBER PAIR SYSTEM

FIG. 4



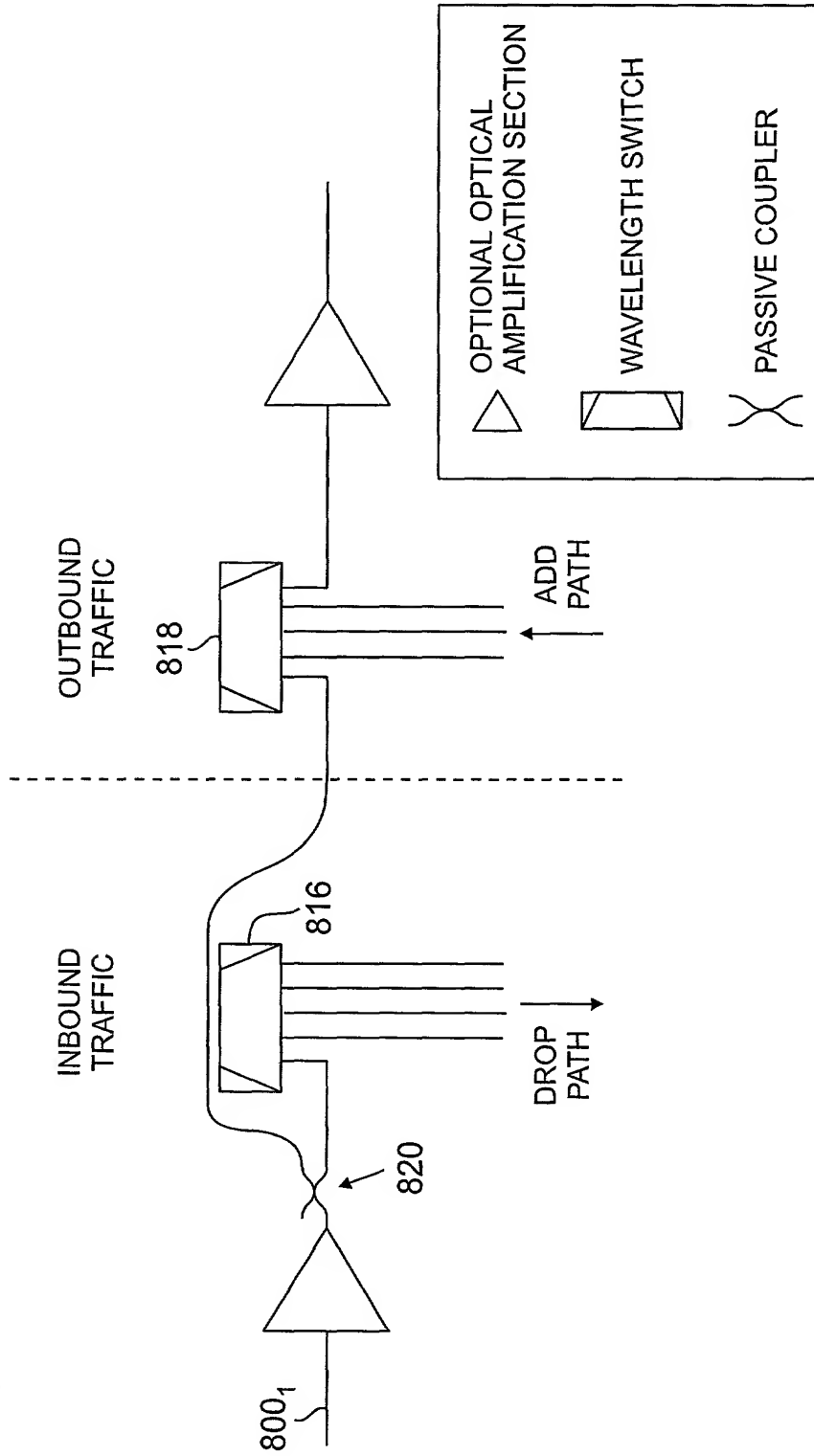
MID-AMPLIFIER SWITCH TO ADD/DROP WITH DISJOINT NODE PATHS
USING A LOW COST PASSIVE COUPLER TO ADD SIGNALS

FIG. 6



INEXPENSIVE ADD/DROP WITH LINK NODE DISJOINT PATHS
WITHOUT WAVELENGTH REUSE DUE TO NO WAVELENGTH BLOCKING
(ENABLES DROP AND CONTINUE OF SIGNAL)

FIG. 7



MID-AMPLIFIER SWITCHING SYSTEM WITH PER WAVELENGTH ADD/DROP,
DROP AND CONTINUE SIGNALS WITH INDEPENDENT EAST/WEST NODE PATHS
(WITH OPTIONAL WAVELENGTH BLOCKING)

FIG. 8